NOAA XCFSA–5255 MF–2

A UNITED STATES DEPARTMENT OF COMMERCE PUBLICATION

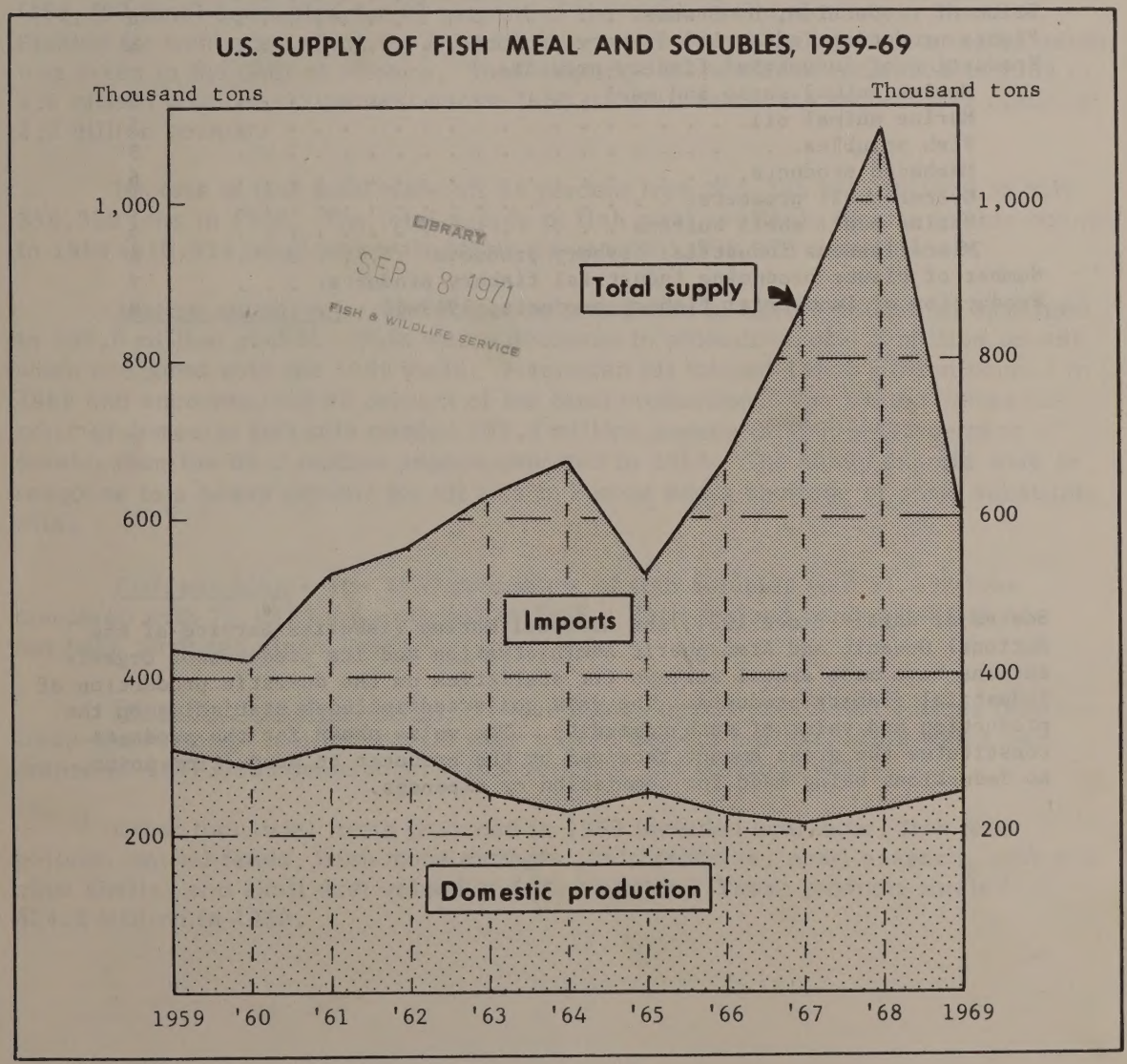
CURRENT FISHERIES STATISTICS NO. 5255

Industrial Fishery Products - 1969

ANNUAL SUMMARY (REVISED)

Washington, D.C.
August 9, 1971

U.S. DEPARTMENT OF COMMERCE / National Oceanic and Atmospheric Administration
National Marine Fisheries Service



LIBRARY
SEP 8 1971
FISH & WILDLIFE SERVICE

CONTENTS

	Page
Review	3
Summary of production, by commodities	4
Value of production, by States	4
Plants producing industrial fishery products	4
Production of industrial fishery products:	
Marine animal scrap and meal	5
Marine animal oil	5
Fish solubles	5
Menhaden products	6
Oyster shell products	6
Marine pearl shell buttons	6
Miscellaneous industrial fishery products	6
Number of plants producing industrial fishery products	7
Production of industrial fishery products, 1949-69	8

Source of data:--Since 1921, the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration and its predecessor organizations have made annual surveys for statistics on the domestic production of industrial fishery products. The data collected includes statistics on the production and value of each commodity. The value shown for the products constitutes the gross amount received by the producer at production point, no deductions being made for commission or expenses.

REVIEW

The 1969 production of industrial products by 138 plants in the United States, American Samoa and Puerto Rico was valued at $83.0 million--an increase of $12.9 million compared with 1968.

Marine animal scrap and meal:--The 1969 production of 252,664 tons was 7 percent over the 1968 production of 235,136 tons. Menhaden meal and scrap (159,493 tons) accounted for 63 percent of the total meal and scrap production. Fishing for menhaden along the Atlantic Coast was generally poor but a record catch was taken in the Gulf of Mexico. Total landings of menhaden increased in 1969 to 1.5 billion pounds--12 percent above 1968 but well below the record 1962 catch of 2.3 billion pounds.

Imports of fish meal were off 58 percent from 855,285 tons in 1968 to only 358,350 tons in 1969. The total supply of fish meal available for use in this country in 1969 (610,914 tons) was well below the record 1,090,421 tons in 1968.

Marine animal oil:--The domestic production of marine animal oil amounted to 169.8 million pounds. This was a decrease in production of 4.3 million pounds when compared with the 1968 yield. Menhaden oil totaled 149.2 million pounds in 1969 and accounted for 80 percent of the total production. The United States exports of domestic fish oils totaled 199.4 million pounds in 1969--188 percent greater than the 69.2 million pounds exported in 1968. The heavy exports were in response to a heavy demand for all oils in Europe and a shortage of some substitute oils.

Fish solubles:--The 1969 production of fish solubles was 81,692 tons compared with 71,833 tons produced in 1968. Homogenized condensed fish has not been produced since 1963.

Other industrial products:--Products from oyster shells and buttons from fresh-water marine mollusk shells were valued at $4.2 million. This was a decrease of $481,000 compared with production in the previous year.

Other industrial items produced in 1969 included agar-agar, fish feed pellets, animal feeds, Irish moss extracts, kelp products, pearl essence, crab and clam shells, and shell dust valued at $25.6 million. These products totaled $24.2 million in 1968.

SUMMARY OF PRODUCTION, BY COMMODITIES, 1969

PRODUCT	NUMBER OF PLANTS	UNIT	QUANTITY	VALUE
MARINE ANIMAL SCRAP AND MEAL	118	TONS	252,664	$39,822,768
MARINE ANIMAL OILS, BODY OIL	61	THOUSAND POUNDS	169,785	9,326,393
FISH SOLUBLES	30	TONS	81,692	4,123,126
MARINE PEARL AND MUSSEL SHELL BUTTONS	3	GROSS	409,620	841,000
OYSTER SHELL GRIT AND LIME ("LIVE AND REEF SHELLS")	8	TONS	207,332	3,329,118
MISCELLANEOUS INDUSTRIAL PRODUCTS	25	-	-	25,562,406
TOTAL	1/138	-	-	83,004,811

1/ EXCLUSIVE OF DUPLICATION.

VALUE OF PRODUCTION, BY STATES, 1969

STATE	VALUE
MAINE	$12,479,192
MASSACHUSETTS AND RHODE ISLAND	1,702,887
NEW YORK AND PENNSYLVANIA	420,954
NEW JERSEY	1,780,330
MARYLAND	977,507
VIRGINIA	5,047,876
NORTH CAROLINA	3,930,665
GEORGIA AND ALABAMA	1,299,071
FLORIDA	3,119,271
MISSISSIPPI	5,572,940
LOUISIANA	21,294,948
TEXAS, IOWA, AND WISCONSIN	3,341,786
ALASKA	11,356
WASHINGTON	1,272,080
OREGON	1,009,825
CALIFORNIA	18,590,162
AMERICAN SAMOA AND PUERTO RICO	1,153,961
TOTAL	83,004,811

PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1969

AREA AND STATE	NUMBER
NEW ENGLAND:	
MAINE	12
MASSACHUSETTS	3
RHODE ISLAND	1
TOTAL	16
MIDDLE ATLANTIC:	
NEW YORK	1
NEW JERSEY	6
PENNSYLVANIA	2
TOTAL	9
CHESAPEAKE:	
MARYLAND	5
VIRGINIA	12
TOTAL	17
SOUTH ATLANTIC AND GULF:	
NORTH CAROLINA	15
GEORGIA	1
FLORIDA	7
ALABAMA	2
(CONTINUED)	

AREA AND STATE	NUMBER
SOUTH ATLANTIC AND GULF (CONTINUED):	
MISSISSIPPI	4
LOUISIANA	27
TEXAS	2
TOTAL	58
GREAT LAKES, WISCONSIN	1
MISSISSIPPI RIVER, IOWA	2
PACIFIC COAST:	
ALASKA	1
WASHINGTON	6
OREGON	4
CALIFORNIA	19
TOTAL	30
AMERICAN SAMOA	2
PUERTO RICO	3
GRAND TOTAL	138

NOTE:--LISTS OF MANUFACTURERS OF INDUSTRIAL FISHERY PRODUCTS BY INDIVIDUAL COMMODITIES MAY BE OBTAINED FROM THE U.S. DEPARTMENT OF COMMERCE, NATIONAL MARINE FISHERIES SERVICE, STATISTICS AND MARKET NEWS DIVISION, 1801 N. MOORE STREET, ARLINGTON, VIRGINIA 22209.

PRODUCTION OF MARINE ANIMAL SCRAP AND MEAL, 1969

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COAST AND TERRITORIES		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
DRIED SCRAP AND MEAL:						
ALEWIFE	1/ 1,451	1/ $217,380	-	-	1,451	$217,380
ANCHOVY	-	-	11,436	$1,738,195	11,436	1,738,195
CRAB	2/ 7,747	2/ 400,644	-	-	7,747	400,644
HERRING, SEA	2/ 6,563	2/1,044,801	-	-	6,563	1,044,801
MENHADEN	159,493	26,960,278	-	-	159,493	26,960,278
SHRIMP	2/ 691	29,185	-	-	691	29,185
THREAD HERRING	1,061	179,654	-	-	1,061	179,654
TUNA AND MACKEREL	-	-	3/26,870	3/3,238,956	26,870	3,238,956
WHALE	-	-	844	101,237	844	101,237
UNCLASSIFIED	33,600	5,550,970	1/ 2,908	1/ 361,468	36,508	5,912,438
TOTAL	210,606	34,382,912	42,058	5,439,856	252,664	39,822,768

1/ INCLUDES QUANTITIES PRODUCED IN THE GREAT LAKES. 2/ INCLUDES QUANTITIES PRODUCED ON THE PACIFIC COAST.
3/ INCLUDES QUANTITIES PRODUCED ON THE ATLANTIC COAST.

PRODUCTION OF MARINE ANIMAL OIL, 1969

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COAST AND PUERTO RICO		TOTAL	
	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE
BODY OIL:						
ANCHOVY	-	-	4,862	$207,416	4,862	$207,416
HERRING, SEA	1/ 3,484	1/ $217,339	-	-	3,484	217,339
MENHADEN	149,155	8,252,716	-	-	149,155	8,252,716
TUNA AND MACKEREL	-	-	4,256	132,172	4,256	132,172
WHALE:						
SPERM	-	-	409	25,187	409	25,187
OTHER	-	-	1,327	78,702	1,327	78,702
UNCLASSIFIED	2/ 5,045	2/ 351,832	3/ 1,247	3/ 61,029	6,292	412,861
TOTAL	157,684	8,821,887	12,101	504,506	169,785	9,326,393

1/ INCLUDES SMALL QUANTITIES PRODUCED ON THE PACIFIC COAST. 2/ INCLUDES LIVER OILS. 3/ INCLUDES SMALL QUANTITIES PRODUCED IN THE GREAT LAKES AND MISSISSIPPI RIVER AREAS. NOTE:--TO CONVERT POUNDS OF OIL TO GALLONS, DIVIDE BY 7.75.

PRODUCTION OF FISH SOLUBLES, 1969

PRODUCT, STATE, AND NUMBER OF PLANTS	TONS	VALUE
FISH SOLUBLES:		
MASSACHUSETTS (1), RHODE ISLAND (1), AND OREGON (1)	3,287	$218,910
NEW JERSEY (2), NEW YORK (1)	2,182	104,441
NORTH CAROLINA (4)	6,894	319,653
VIRGINIA (3) AND FLORIDA (1)	9,164	391,205
MISSISSIPPI (3)	11,567	577,843
LOUISIANA (8) AND TEXAS (1)	34,732	1,729,877
CALIFORNIA (4)	13,866	781,197
TOTAL (30)	81,692	4,123,126

NOTE:--INCLUDES MENHADEN SOLUBLES.

PRODUCTION OF MENHADEN PRODUCTS, 1969

STATE AND NUMBER OF PLANTS	DRIED SCRAP AND MEAL		OIL		SOLUBLES		TOTAL
	TONS	VALUE	POUNDS	VALUE	TONS	VALUE	VALUE
NEW YORK (1) AND NEW JERSEY (2).	3,635	$612,846	5,299,791	$257,042	1,819	$89,221	$959,109
VIRGINIA (3) AND FLORIDA (2) . .	20,088	3,668,103	14,079,782	758,555	8,255	352,902	4,779,560
NORTH CAROLINA (8)	15,329	2,791,809	9,671,039	598,793	6,894	319,653	3,710,255
MISSISSIPPI (3).	23,458	3,720,851	20,746,696	1,204,646	11,567	577,843	5,503,340
LOUISIANA (8) AND TEXAS (1). . .	96,983	16,166,669	99,357,898	5,433,680	34,732	1,729,877	23,330,226
TOTAL (28).	159,493	26,960,278	149,155,206	8,252,716	63,267	3,069,496	38,282,490

NOTE:--INCLUDES A SMALL QUANTITY OF OTHER SPECIES.

PRODUCTION OF OYSTER SHELL PRODUCTS, 1969

("REEF AND LIVE SHELLS")

STATE AND NUMBER OF PLANTS	POULTRY GRIT		LIME, BURNED AND UNBURNED		TOTAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
MARYLAND (1), FLORIDA (1), AND TEXAS (1).	83,160	$1,559,446	41,148	$321,148	124,308	$1,880,594
ALABAMA (1), PENNSYLVANIA (1), OREGON (1), AND VIRGINIA (2) . .	78,433	1,297,235	4,591	151,289	83,024	1,448,524
TOTAL (8).	161,593	2,856,681	45,739	472,437	207,332	3,329,118

PRODUCTION OF MARINE PEARL SHELL BUTTONS, 1969 1/

STATE AND NUMBER OF PLANTS	BUTTONS	
	GROSS	VALUE
PENNSYLVANIA (1) AND NEW JERSEY (2).	409,620	$841,000

1/ INCLUDES FRESH-WATER MUSSEL SHELL BUTTONS.

PRODUCTION OF MISCELLANEOUS INDUSTRIAL FISHERY PRODUCTS, 1969

PRODUCT	STATE AND NUMBER OF PLANTS	VALUE
AGAR-AGAR.	CALIFORNIA (1)	
ANIMAL FEED AND FISH FEED PELLETS. . . .	CALIFORNIA (4), WASHINGTON (1), OREGON (1)	
IRISH MOSS EXTRACTS.	MAINE (2)	
KELP PRODUCTS.	CALIFORNIA (3)	
LEATHER PRODUCTS	NEW JERSEY (1)	
LIQUID AND DRIED FERTILIZER.	CALIFORNIA (1), OREGON (1), VIRGINIA (1)	$25,562,406
COLORED CHIPS.	IOWA (1)	
PEARL ESSENCE.	MAINE (6)	
CRAB AND HARD CLAM SHELLS (PROCESSED FOR FOOD SERVING)	ALABAMA (1), MISSISSIPPI (1), NORTH CAROLINA (1)	
MUSSEL SHELL, LIME AND DUST.	IOWA (1)	

NOTE:--DOES NOT INCLUDE $6.2 MILLION WORTH OF SEAL SKINS, PROCESSED IN SOUTH CAROLINA.

NUMBER OF PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1969

PRODUCT	ATLANTIC AND GULF COASTS 1/	PACIFIC COAST 2/	TOTAL
	NUMBER	NUMBER	NUMBER
SCRAP AND MEAL, DRIED:			
ALEWIFE	4	-	4
ANCHOVY	-	6	6
CRAB	14	2	16
GROUNDFISH	1	-	1
HERRING, SEA	5	2	7
MENHADEN	27	-	27
SHRIMP	20	1	21
TUNA AND MACKEREL	1	13	14
WHALE	-	1	1
THREAD HERRING	5	-	5
UNCLASSIFIED	11	5	16
OIL:			
BODY:			
ALEWIFE	1	-	1
ANCHOVY	-	6	6
HERRING, SEA	4	1	5
MENHADEN	25	-	25
SALMON	-	2	2
THREAD HERRING	2	-	2
TUNA AND MACKEREL	-	8	8
WHALE:			
SPERM	-	1	1
OTHER	-	1	1
UNCLASSIFIED	7	3	10
LIVER OILS	1	-	1
MUSSEL SHELL PRODUCTS (FRESH-WATER):			
BUTTONS	1	-	1
COLORED CHIPS AND DUST	1	-	1
OYSTER SHELL PRODUCTS:			
CRUSHED SHELL FOR POULTRY FEED	5	1	6
SHELL LIME (BURNED AND UNBURNED)	5	1	6
MARINE PEARL SHELL BUTTONS	2	-	2
AGAR-AGAR	-	1	1
FISH SOLUBLES	27	5	32
IRISH MOSS EXTRACTS	2	-	2
KELP PRODUCTS	-	3	3
LIQUID AND DRIED FERTILIZER	1	2	3
PEARL ESSENCE	6	-	6
CRAB SHELLS (FOR DEVILED CRAB MEAT)	3	-	3
ANIMAL FEEDS	-	4	4
ANIMAL FEED PELLETS	-	2	2
LEATHER PRODUCTS	1	-	1
TOTAL, EXCLUSIVE OF DUPLICATION	102	36	138

1/ INCLUDES FIRMS IN THE MISSISSIPPI RIVER AND GREAT LAKES AREA.

2/ INCLUDES AMERICAN SAMOA AND PUERTO RICO.

PRODUCTION OF INDUSTRIAL FISHERY PRODUCTS, 1949-69

YEAR	MENHADEN DRIED SCRAP AND MEAL		HERRING MEAL		SARDINE (PACIFIC) MEAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
1949. . . .	112,641	$17,773,491	5,298	$973,445	39,278	$6,219,717
1950. . . .	103,260	12,855,651	17,797	2,138,776	43,009	5,269,696
1951. . . .	115,426	13,877,636	9,631	1,370,083	17,225	2,266,968
1952. . . .	143,968	17,844,511	9,864	1,314,361	390	51,741
1953. . . .	174,752	21,767,205	5,206	717,472	144	18,966
1954. . . .	183,091	23,783,364	6,973	928,862	6,513	842,649
1955. . . .	190,628	25,457,512	7,671	1,163,464	6,966	968,908
1956. . . .	210,582	27,439,634	11,298	1,562,622	2,809	369,867
1957. . . .	172,388	21,725,888	13,891	1,861,961	1,474	183,330
1958. . . .	158,074	20,698,929	10,277	1,457,982	10,756	1,390,200
1959. . . .	223,893	26,391,987	11,963	1,589,237	2,927	323,999
1960. . . .	218,423	19,201,716	9,151	834,426	3,508	316,463
1961. . . .	247,551	25,852,498	5,268	619,934	2,518	257,171
1962. . . .	239,707	28,249,566	5,095	688,984	702	73,260
1963. . . .	184,205	22,263,320	7,537	856,432	(2)	(2)
1964. . . .	160,349	20,001,220	8,881	1,102,522	(2)	(2)
1965. . . .	175,959	25,869,014	12,932	2,005,617	-	-
1966. . . .	134,954	20,539,455	11,860	1,971,118	-	-
1967. . . .	119,135	15,265,369	9,492	1,328,183	-	-
1968. . . .	143,154	19,534,274	15,411	2,127,988	-	-
1969. . . .	159,493	26,960,278	6,563	1,044,801	-	-

YEAR	TUNA AND MACKEREL MEAL		OTHER MEAL, ACIDULATED, DRIED AND GREEN SCRAP		TOTAL, SCRAP AND MEAL	
	TONS	VALUE	TONS	VALUE	TONS	VALUE
1949. . . .	19,139	$3,073,742	60,824	$7,611,747	237,180	$35,652,142
1950. . . .	25,377	3,268,594	50,511	5,721,018	239,954	29,253,735
1951. . . .	23,147	3,021,720	44,327	4,837,490	209,756	25,373,897
1952. . . .	21,951	2,892,874	45,230	5,058,167	221,403	27,161,654
1953. . . .	20,029	2,622,631	38,720	4,433,379	238,851	29,559,653
1954. . . .	21,576	2,850,605	38,814	4,348,517	256,967	32,753,997
1955. . . .	23,396	3,120,302	35,841	4,039,282	264,502	34,749,468
1956. . . .	26,266	3,355,069	44,838	5,159,699	295,793	37,886,891
1957. . . .	25,716	3,037,436	50,616	5,783,140	264,085	32,591,755
1958. . . .	25,311	3,185,772	43,722	5,025,696	248,140	31,758,579
1959. . . .	25,380	2,847,204	42,388	4,773,438	306,551	35,925,865
1960. . . .	26,499	2,318,877	32,556	2,610,106	290,137	25,281,588
1961. . . .	21,243	2,056,426	34,685	3,153,807	311,265	31,939,836
1962. . . .	26,559	2,578,761	40,196	3,982,659	312,259	35,573,230
1963. . . .	26,957	2,943,109	37,208	4,172,288	255,907	30,235,149
1964. . . .	21,113	2,229,443	44,909	4,705,673	235,252	28,038,858
1965. . . .	25,399	3,032,063	39,761	4,800,367	254,051	35,707,061
1966. . . .	25,290	3,199,211	51,717	6,566,004	223,821	32,275,788
1967. . . .	25,487	2,757,513	57,075	6,687,219	211,189	26,038,284
1968. . . .	28,781	2,955,047	47,790	5,644,019	235,136	30,261,328
1969. . . .	26,870	3,238,956	59,738	8,578,733	252,664	39,822,768

YEAR	FISH SOLUBLES AND HOMOGENIZED CONDENSED FISH		OYSTER AND MARINE CLAM SHELL LIME AND GRIT		FRESH-WATER MUSSEL SHELL PRODUCTS	MARINE PEARL SHELL BUTTONS
	TONS	VALUE	TONS	VALUE	VALUE	VALUE
1949. . . .	51,671	$5,144,111	362,028	$2,662,252	$3,767,703	$6,782,281
1950. . . .	51,863	4,461,362	399,375	2,950,053	5,064,495	9,239,018
1951. . . .	50,364	4,128,356	453,319	3,568,745	3,845,661	7,714,846
1952. . . .	70,482	5,979,865	429,348	3,359,024	4,438,545	6,905,104
1953. . . .	81,494	7,344,967	466,732	3,830,276	5,357,849	7,403,894
1954. . . .	115,030	10,591,709	482,687	4,172,518	5,896,153	6,955,096
1955. . . .	110,919	8,354,492	359,565	3,148,658	4,787,020	6,606,363
1956. . . .	128,829	9,989,083	386,200	3,943,621	4,441,702	6,127,940
1957. . . .	122,273	10,218,269	478,568	5,200,589	3,333,369	5,754,892
1958. . . .	130,177	11,518,710	431,171	4,718,786	2,424,569	4,217,522
1959. . . .	165,359	10,043,051	399,338	4,937,182	1,221,142	3,166,190
1960. . . .	98,929	4,020,992	470,825	6,821,034	1/ 577,221	2,675,928
1961. . . .	112,254	5,468,643	442,835	6,341,864	1/ 702,296	2,317,503
1962. . . .	124,649	6,634,748	435,656	5,888,713	1/ 763,773	1,904,488
1963. . . .	107,402	6,753,065	398,583	5,479,819	1/ 369,020	1,151,549
1964. . . .	3/93,296	3/5,662,194	362,543	4,914,924	1/ 272,281	1,004,344
1965. . . .	3/94,840	3/5,939,073	349,528	4,558,346	1/ 116,669	900,600
1966. . . .	3/83,441	3/5,160,371	334,212	4,315,125	(4)	815,595
1967. . . .	3/74,675	3/4,587,708	311,367	4,144,107	(4)	788,575
1968. . . .	3/71,833	3/3,706,548	239,798	3,572,487	(4)	1,078,408
1969. . . .	3/81,692	3/4,123,126	207,332	3,329,118	(4)	841,000

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

PRODUCTION OF INDUSTRIAL FISHERY PRODUCTS, 1949-69 - Continued

YEAR	MENHADEN OIL		HERRING OIL		SARDINE (PACIFIC) OIL	
	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE
1949. . . .	62,204	$3,407,510	5,425	$394,297	45,924	$2,872,532
1950. . . .	76,575	5,866,554	24,821	2,366,005	46,415	4,693,550
1951. . . .	94,028	9,771,154	11,346	1,205,384	14,569	1,545,937
1952. . . .	96,665	5,785,395	8,115	517,538	157	10,815
1953. . . .	133,684	8,806,317	5,390	360,533	98	6,402
1954. . . .	139,811	9,755,320	5,707	434,347	5,669	420,531
1955. . . .	159,241	12,195,454	8,183	668,681	6,733	521,566
1956. . . .	168,211	14,092,275	13,681	1,141,911	2,530	180,544
1957. . . .	118,484	9,466,198	14,106	1,138,978	656	54,615
1958. . . .	127,986	9,434,108	13,203	882,119	5,556	426,695
1959. . . .	154,712	10,743,781	15,004	988,994	1,409	91,691
1960. . . .	183,403	11,582,027	11,499	668,295	1,201	78,066
1961. . . .	235,167	12,913,447	6,135	416,710	646	36,221
1962. . . .	232,619	10,059,839	5,086	237,897	161	10,442
1963. . . .	167,635	9,853,302	5,709	292,966	-	-
1964. . . .	157,730	11,734,935	10,354	785,155	(2)	(2)
1965. . . .	175,204	13,240,988	8,528	748,336	-	-
1966. . . .	144,198	10,981,557	7,882	585,464	-	-
1967. . . .	101,384	4,736,298	5,676	306,835	-	-
1968. . . .	152,020	6,247,396	9,533	376,018	-	-
1969. . . .	149,155	8,252,716	3,484	217,339	-	-

YEAR	TUNA AND MACKEREL OIL		WHALE AND SPERM OIL		LIVER OIL	
	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE
1949. . . .	4,485	$265,736	562	$52,475	6,258	$9,845,455
1950. . . .	6,633	553,231	-	-	2,484	3,431,090
1951. . . .	5,345	525,552	514	50,200	2,247	2,579,347
1952. . . .	5,586	367,585	-	-	2,074	2,075,014
1953. . . .	4,944	314,586	-	-	1,532	1,436,627
1954. . . .	4,386	243,446	-	-	1,775	1,391,921
1955. . . .	4,087	264,225	-	-	1,642	588,739
1956. . . .	5,290	359,144	2,089	172,703	2,143	625,337
1957. . . .	5,537	397,334	3,276	214,152	1,145	542,031
1958. . . .	4,704	319,183	3,193	219,253	381	234,899
1959. . . .	4,508	190,938	3,910	264,906	247	300,503
1960. . . .	3,819	175,047	3,279	174,569	245	349,813
1961. . . .	5,719	278,160	3,470	242,339	52	54,546
1962. . . .	5,008	235,528	2,567	177,650	44	40,819
1963. . . .	5,903	273,901	2,129	148,416	25	29,070
1964. . . .	4,816	272,178	3,160	195,610	23	24,000
1965. . . .	4,794	333,776	2,667	169,142	(2)	(2)
1966. . . .	4,111	303,320	1,365	81,046	(2)	(2)
1967. . . .	5,218	267,634	2,483	147,434	(2)	(2)
1968. . . .	4,549	162,741	2,394	115,861	(2)	(2)
1969. . . .	4,256	132,172	1,736	103,889	(2)	(2)

YEAR	OTHER MARINE ANIMAL OIL		TOTAL OIL		OTHER INDUSTRIAL PRODUCTS	GRAND TOTAL
	THOUSAND POUNDS	VALUE	THOUSAND POUNDS	VALUE	VALUE	VALUE
1949. . . .	7,861	$526,972	132,719	$17,364,977	$7,099,029	$78,472,495
1950. . . .	6,301	562,279	163,229	17,472,709	8,746,994	77,188,366
1951. . . .	8,243	946,069	136,292	16,623,643	8,057,879	69,313,027
1952. . . .	8,111	635,021	120,708	9,391,368	10,756,071	67,991,631
1953. . . .	6,558	557,441	152,206	11,481,906	9,393,451	74,371,996
1954. . . .	6,637	559,879	163,985	12,805,444	9,252,219	82,427,136
1955. . . .	6,848	629,949	186,734	14,868,614	10,820,787	83,335,402
1956. . . .	7,556	679,758	201,500	17,251,672	12,095,932	91,736,841
1957. . . .	9,411	805,921	152,615	12,619,229	11,662,865	81,380,968
1958. . . .	10,187	816,933	165,210	12,333,190	12,911,693	79,883,049
1959. . . .	7,544	511,163	187,334	13,091,976	13,830,120	82,215,526
1960. . . .	5,697	358,655	209,143	13,386,472	13,831,917	66,595,152
1961. . . .	6,929	431,463	258,118	14,372,886	13,425,946	74,568,974
1962. . . .	4,590	239,233	250,075	11,001,408	13,911,209	75,677,569
1963. . . .	4,426	255,797	185,827	10,853,452	13,759,174	68,601,228
1964. . . .	4,115	285,113	180,198	13,296,991	16,721,404	69,910,996
1965. . . .	4,247	359,952	195,440	14,852,194	20,756,230	82,830,173
1966. . . .	6,489	528,301	164,045	12,479,688	17,925,121	72,971,688
1967. . . .	7,637	653,468	122,398	6,111,669	19,356,446	61,026,789
1968. . . .	5,576	424,675	174,072	7,326,691	24,181,692	70,127,154
1969. . . .	11,153	620,277	169,785	9,326,393	25,562,406	83,004,811

1/ INCLUDES THE VALUE OF NOVELTIES. 2/ INCLUDED IN OTHER MEAL OR OTHER OIL. 3/ HOMOGENIZED CONDENSED FISH WAS NOT PRODUCED AFTER 1963. 4/ INCLUDED WITH MARINE PEARL SHELL BUTTONS.